

Step 1: Provides the substrate.

Step 2 :on the surface of substrate treated by microwave plasma field.

Step 3 : a precise coating method by applying a field functional control, on the surface of substrate treated by microwave plasma field was homogeneously coated by a aniline related solution .

Step 4 : by using a precise coating engineering the oxidant solution was quantitatively coated on an aniline film, which possesses a positional order stacking arrangement for molecular structure, and forms a possessing 3-dimensional order structure polyaniline film.

Step 5 : by using a precise coating engineering the blending agent was homogeneously coated onto a possessing 3-dimensional order structure polyaniline film to proceed a blending effect reaction to form a possessing blending effect 3-dimensional order structure polyaniline film to increase an electrical conductivity of polyaniline.

**Fig.1**